

20010104.ba v03_n074.bam.20010104

>From ???@??? Thu Jan 4 18:08:17 2001 -0600
Date: Thu, 4 Jan 2001 18:05:27 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3074
Message-Id: <20010105011746.10C3A6584@devel43.theporch.com>

BOATANCHORS Digest 3074

Topics covered in this issue include:

- 1) Re: WWVB reception
by "Mike B. Feher" <n4fs@monmouth.com>
- 2) Pavek Museum
by Dayton Jones <dj@sgra.jpl.nasa.gov>
- 3) Re: slagging/ ripping Regressive Edu-Kits RAG CHEW
by jackiv@juno.com
- 4) Re: ripping Regressive Edu-Kits
by "Hue Miller" <kargokult@proaxis.com>
- 5) Re: SPEAKING OF TT'S
by Arden Allen <gumbear@pacbell.net>
- 6) Re: SPEAKING OF TT'S
by Arden Allen <gumbear@pacbell.net>
- 7) Re: ripping Regressive Edu-Kits
by "Bob Nickels" <ranickel@mwci.net>
- 8) Gathering pieces of ART13 PS, need pwer connector plug
by "Jim Zellmer" <zellmer@raccoon.com>
- 9) Re: Obit - Al Gross
by "Marty's Refl. Drop" <polepeeg@aaa4rm.ba-watch.org>
- 10) Stone Age Fax - Operational!
by Dick Dillman <ddillman@igc.org>
- 11) RE: Obit - Al Gross
by "Ed Sieb" <sieb@sympatico.ca>
- 12) Re: slagging/ ripping Regressive Edu-Kits RAG CHEW
by john <johnmb@mindspring.com>
- 13) Re: Pavek Museum
by "Mike Warren W5MAZ" <w5maz@uswest.net>
- 14) Military Radio Items Needed, II
by "STEVE FINELLI" <navrad@enter.net>
- 15) Re: Obit - Al Gross
by Tom B <tbryan@nova.org>
- 16) Re: Gathering pieces of ART13 PS, need pwer connector plug
by Lenox Carruth <carruth@geo-thermal.com>
- 17) Need BC-221D spares cover
by n6nae@ix.netcom.com
- 18) HRO alignment

by Robert Vincent <rvi3489u@postoffice.uri.edu>
19) RE: Tube tester use
by "Sandy Blaize" <ebjr@i-55.com>
20) transformer questions
by brian.k.harris@philips.com
21) Re: transformer questions
by Arden Allen <gumbear@pacbell.net>

Message-ID: <015601c075e3\$523e1440\$378abd18@n4fs>
From: "Mike B. Feher" <n4fs@monmouth.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: WWVB reception
Date: Wed, 3 Jan 2001 19:14:34 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Art & Group -

I have three (3) of those throughout the house, including the basement and they all work fine. All three read identical times to the second. Interestingly, they agree exactly with ebay time also to the second. A great snipping tool that I take advantage of all the time, HI. 73 - Mike

Mike B. Feher, N4FS
89 Arnold Blvd.
Howell NJ, 07731
(732) 901-9193

----- Original Message -----
From: "Arthur I. Larky" <ail0@lehigh.edu>
To: "Old Tube Radios" <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Wednesday, January 03, 2001 11:57 AM
Subject: Re: WWVB reception

> FWIW:
> I bought a clock radio from RatShack just before Christmas that was
> supposed to receive WWVB and set the clock at 6, 12, 6 and 12. Only did
> so once in a while. (I live in Bethlehem, PA) Moved it around the
> house, placed the antenna against the window, etc. Not reliable, so I

> took it back. A nice idea, but no cigar.
> Art K3HBA
>
> Bill Hawkins wrote:
>
> > Happy new year, group!
> >
> > Have a puzzlement caused by Minnesota weather. Over a foot of snow
> > has built up on the roof of our walkout rambler (one-story with
> > basement exposed on one side). I recently bought an expensive VLF
> > receiver with phase locked loop detection. It picked up WWVB with
> > a non-resonant loop in the attic. Then the snows fell, and WWVB
> > wouldn't come in anymore. Today I pulled about 10% of the snow
> > off the roof (to clear some vents), and now WWVB comes booming
> > in again.
> >
> > Will a foot of snow shield a VLF loop antenna? Or has WWVB been
> > off the air? Or am I gonna hurt my hand smacking my forehead
> > when I figure out the real cause . . .
> >
> > Regards,
> > Bill Hawkins
>
>

Message-Id: <200101040018.QAA10191@bllac.jpl.nasa.gov>
Date: Wed, 3 Jan 2001 16:18:01 -0800 (PST)
From: Dayton Jones <dj@sgra.jpl.nasa.gov>
Subject: Pavek Museum
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: TEXT/plain; charset=us-ascii
Content-MD5: DuPGjo4Q4E2ZU2r2r1LSzQ==

I have read some favorable descriptions of the Pavek Museum of Broadcasting in Minneapolis on this list, so I took advantage of a visit to Minneapolis last Saturday to take a look for myself. It is, indeed, an amazing place. Literally hundreds of beautifully restored radios from a working spark gap transmitter to the Collins S-line era. Mostly broadcast receivers, but some ham equipment and a vast collection of tubes. Anyone interested in boatanchors should make an effort to visit this place when they get a chance. It's only about a half hour drive from the MSP airport. Their web page (www.pavekmuseum.org) has contact info, but the photos do not really give a proper impression

of the size of the place. 73,

Dayton Jones, K6DJ

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com, kargokult@proaxis.com
Date: Wed, 3 Jan 2001 20:38:03 +0000
Subject: Re: slagging/ ripping Regressive Edu-Kits RAG CHEW
Message-ID: <20010103.203805.-359417.3.jackiv@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: jackiv@juno.com

Does this "thing" have a dual triode (RK-34) on the right side of the top deck? The left side a crystal osc/driver?
The bottom deck with the power supply and modulator?
Yes I have seen one. Have not seen docs tho.
Jack <jackiv@juno.com>

On Wed, 03 Jan 2001 17:55:05 -0500 john <johnmb@mindspring.com> writes:

> I've got a couple of what I think are NRI's "learning tool" used
> with a Broadcast Engineering course...namely a small AM transmitter
> built on 2 decks. Anyone ever see 'em? I'd love to find any sort
> of documentation on them!

>
> Happy New Year!
> John

>
>
>
>
>
>
> At 12:30 PM 1/3/01 -0500, Richard Post wrote:

> >
> >>To summarize, if i could open a pipeline into Time, i would
> >>shout down it, back to 1954, and 1961, and on....

> >>
> >>"Don't buy this thing!!!"
> >>--Hue Miller

>
>

Message-ID: <001801c07604\$113c86e0\$e0c36ac6@oemcomputer>
From: "Hue Miller" <kargokult@proaxis.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ripping Regressive Edu-Kits

Date: Wed, 3 Jan 2001 20:08:52 -0800

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Altho they cost more, Lafayette and Knight Kit were well worth suffering longer & saving more allowance money. The kits all worked pretty well, were fun to use rather than a pain, looked good, and the instruction manuals were a treasure by themselves, even if the circuit explanations were not all that great for a rank beginner. I'm thinking of something like the Knight 10-in-1 kit, versus the Regressive Edu-Kit.

Once upon a time (it was that long ago) i saw this ad in Popular Science classifieds for a "Crystal Set \$.75" I sent for it, but instead of a shoebox sized box, arrived a box big enuff for a thimble. Inside was a square of bakelite about the size of a postage stamp. One side held an open mounted crystal with catwhisker, the rest was taken up with maybe 50 turns of enameled wire wrapped around the bakelite flat. The far side held 2 fahnstock clips. This was before i had totally grasped the idea of "value for money", but it was part of the learning curve. Actually, the company could not have been making much money on this, certainly not enuff to start any Swiss bank account, so it was probably a come-on for bigger kits, altho i don't recall. In those days, i considered such a transaction a fraud. Now i look at it more kindly, as a friendly, inexpensive joke, and the punch line is really in finding out how they executed it.

Remember Western Radio of Kearny, Nebraska ("Midpoint of America" thus also known earlier as Midway Electronics)? I put them in the trickster category also. Walkie Talkies for \$4.99 a pair? (surplus soundpowered phone elements in plastic handsets, connected by wire). Walkie Talkie broadcaster for car to car use? (1-transistor oscillator with short whip antenna - could possibly communicate between 2 cars circling at low speed in the same small parking lot) Novice Transceiver with coast to coast range for \$9.95 (yes, but with one tube, and with a tuning rate of about 10 MHz per revolution of knob, it would take the hand of a jeweler and the patience of Job to tune in a ham band. But now i see the price of admission was worth seeing how they did it. Hue Miller

Date: Wed, 03 Jan 2001 19:39:06 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: SPEAKING OF TT'S
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G6M00KWBCNJGN@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

> So when i see an ex TV repairman's tube caddy for
> sale at a swap, with many tube boxes with the tube
> number underlined, and an obvious used tube inside,
> what does that say about the servicing technique?
> Does that mean that one customer might get a bunch
> of new tubes, they paid for, and the next customer
> pays for used tubes? I have seen these marked tube
> boxes often enuff that it must have been common in
> the trade.

Recycling,ahead of its time!

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Date: Wed, 03 Jan 2001 19:53:23 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: SPEAKING OF TT'S
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G6M00GGMD3JQ@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

One thing we haven't mentioned that I believe was common practice: Like the medical profession, we practiced *defensive maintenance*. One thing that wasn't too healthy for a service business was callbacks. It was better to replace suspicious and known regular failure tubes and avoid a premature callback than to have to imagine the back fence grousing that would undoubtedly commence as soon as you left your third callback in a month. With as little time as you could spend at a service call that was about the only thing you could do. Bringing a set back to the shop that played fine on the bench, by comparison, was tantamount to criminal fraud. And yeah, these are arguments that justify keeping the tube stock turning over too. A little larceny resides in every heart (speaking for myself, of course,heh, heh!).

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <029301c07605\$89bc31a0\$0101a8c0@hppav>
From: "Bob Nickels" <ranickel@mwci.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ripping Regressive Edu-Kits
Date: Wed, 3 Jan 2001 22:14:41 -0600
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Remember Western Radio of Kearny, Nebraska <snip>

As a native Cornhusker, I'll mention that it's spelled "Kearney" - but I'll bet most of us remember seeing those ads a lot more often than the radios themselves! The closest I've come is the "Weskit BN-1" shown on Sheldon Wheaton's webpage:
<http://www.sky.net/~swheaton/bn1.html>

While "coast to coast" range is probably pushing it, it looks like a viable design, albeit on the cheesy side. I guess you don't get much more than a 3A5, a cardboard cabinet, and a handful of parts for your \$9.95! Sheldon comments that he made a 600 mile CW contact on the transmitter but using a "friendlier" receiver instead. I had to laugh at the notion of 2 to 6 mile range with a 3 foot base-loaded whip antenna!

But since Hue also mentioned Knight Kit, I'd like to know if anyone has owned, or might be able to help me find a Knight Kit "DX-er" that was contemporary with my first receiver, the reknowned "Span Master". The DX-er was a two-band, two-transistor regen that appeared in all the Knight Kit ads, yet I've never seen one offered for sale or in someone's collection. At \$15, it was probably not much of a step above the cardboard-cased "Weskit" but I'd still like to find one!

73, Bob W9RAN

Message-ID: <002e01c07609\$6a9e0ce0\$b54bead1@raccoon.com>
From: "Jim Zellmer" <zellmer@raccoon.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Gathering pieces of ART13 PS, need pwer connector plug
Date: Wed, 3 Jan 2001 22:46:47 -0600
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have been gathering pieces for a power supplier for my ART13. Just

received a nice lambda 28 Volt power supply that should handle the low voltage DC. I would like to find the power connector(s) that will work on the ART13 transmitter. Does any one have information on a source for these?

TNX EX 73

Jim Zellmer, KA0VSL

Date: Thu, 4 Jan 2001 01:27:50 -0500 (EST)
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
Message-Id: <200101040627.BAA19599@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Re: Obit - Al Gross

Jerry...

Joanne-Eleanor?

Was that the odd AN/SRT3 (?) cylindrical 118mc Gibson Girl sea-air replacement 2-way fm WW2's end?

Message-Id: <3.0.5.32.20010103221951.00794d10@pop.igc.org>
Date: Wed, 03 Jan 2001 22:19:51 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.org>
Subject: Stone Age Fax - Operational!
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Readers of these pages with exceptional memories may recall that back in 1996 I submitted a report of my acquisition of what can only be called a boatanchor among boatanchors - a WWII vintage AN/TXC-1 facsimile machine. I re-submit that report now as a way of announcing that the machine has been returned to operation. Links to pictures showing it turnin' and burnin' receiving the news in Japanese from JJC are included below.

Regards,

Dick

=====

I dragged home another one last weekend. Me and my sidekick Sprout were on our third pass at the Foothill swapmeet when we saw it. But

to really get the picture, I have to tell you about Sprout.

She's about 23, stands only a bit over 5ft., has hair dyed as red as a port side running light and energy to burn. It's a constant "Wow, lookit that. What's goin' on? Man, that's cool, let's buy that!" But no lightweight, she. Sprout crossed the Atlantic as R/O on our smallest ship, the 82ft. Moby Dick that's famous for rolling through 40 degrees, came through the canal and up through Central America to San Francisco. She's off tomorrow for Amsterdam to be R/O on our newest and biggest ship, the Arctic Sunrise, bound for the North Sea. She lives in my closet when in San Francisco (no lie). I'm 52, 6'6" tall and weigh 220 pounds with a full beard. Needless to say, we make quite the pair.

So anyway, there it was: a TT-1F/TXC-1, new in the box - for 20 dollah! For the uninitiated, the TXC-1 is a 40s vintage fax machine that puts all others in the shade, fun-wise. I know, 'cause I used one years ago to copy my first off-the-air fax using a RBC receiver and a BC-221 as the BFO because the RBA drifted too much for fax. So me and Sprout loaded the monster into the '64 Volvo and set off for home happy as two bivalve mollusks.

The TXC-1 has a rotating drum on which you put paper with a white coating over a black under layer. A high voltage spark burns off the white layer at the appropriate places to reveal the black underneath to create your fax image. Man, when this baby's turnin' and burnin', it's something!

Okay, so first you slap on a sheet of paper and secure it with the clips. Then you wait for the fax to begin and throw certain lever switches to get the drum turning and certain others to sync the image - and there you go! The oscillator howling like a banshee, the drum clicking as it turns, the high voltage spark going zzzt! zzzt!, the smoke rising as it burns off the white covering. Now *that's* facsimile recording! And in the interval between faxes you gotta do the whole routine again, but fast!

Since the original TXC-1 left, I've been using an Alden model 519M(T)-EA that prints on 19" wide paper and stands taller than a chest o' drawers with the rack space beneath filled with all kinds of converters, amplifiers *and* a SP-600-JX-17. But the thing is, it's almost practical to use. It senses the start and stop tones, uses a continuous roll of paper (wet!) and automatically syncs the image. But with the TXC-1, it's more like driving a steam engine.

The guy at Foothill said he had several more if any of you are unapologetic fans of the electro-mechanical.

=====

<http://www.radiomarine.org/TXC-1-1.jpg>

<http://www.radiomarine.org/TXC-1-3.jpg>

<http://www.radiomarine.org/TXC-1-4.jpg>

Dick Dillman, W6AWO
Member of the Maritime Radio Historical Society
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From: "Ed Sieb" <sieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Obit - Al Gross
Date: Thu, 4 Jan 2001 02:56:22 -0500
Message-ID: <LOBBJH0L00HLIPLONIAFIEMPDIAA.sieb@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A check of the "RCA" Radio Club of America website should have some info on Al Gross and his projects.

<http://www.radio-club-of-america.org/>

Unfortunately, the last site update was early Dec. 2000, so no info yet.

Ed
VA3ES

Message-Id: <3.0.3.32.20010104064140.00db7ba0@mindspring.com>
Date: Thu, 04 Jan 2001 06:41:40 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@mindspring.com>
Subject: Re: slagging/ ripping Regressive Edu-Kits RAG CHEW
Cc: boatanchors@theporch.com, kargokult@proaxis.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

That is indeed the one!

If anyone has seen the docs, you're a rare individual, and I'd love to hear from you!

Have you actually seen one running Jack?

73

John

At 08:38 PM 1/3/01 +0000, jackiv@juno.com wrote:

>Does this "thing" have a dual triode (RK-34) on the right side of the top
>deck? The left side a crystal osc/driver?

>The bottom deck with the power supply and modulator?

>Yes I have seen one. Have not seen docs tho.

>Jack <jackiv@juno.com>

>

>On Wed, 03 Jan 2001 17:55:05 -0500 john <johnmb@mindspring.com> writes:

>> I've got a couple of what I think are NRI's "learning tool" used

>> with a Broadcast Engineering course...namely a small AM transmitter

>> built on 2 decks. Anyone ever see 'em? I'd love to find any sort

>> of documentation on them!

Date: Thu, 4 Jan 2001 06:31:19 -0600

Message-ID: <00bc01c0764a\$3d9e0ec0\$f990e23f@4h8ha>

From: "Mike Warren W5MAZ" <w5maz@uswest.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Pavek Museum

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

> I have read some favorable descriptions of the Pavek

> Museum of Broadcasting in Minneapolis on this list,

...

> Anyone interested in boatanchors should make an effort

> to visit this place when they get a chance

The best time to come is in May during the Northland Antique Radio Club (NARC) annual Radio Daze. The Pavek opens up it's "back room" and has a garage sale of excess equipment.

Mike Warren (in MPLS)

Message-ID: <010201c07661\$210d5100\$8f9a10cf@stevef>

From: "STEVE FINELLI" <navrad@enter.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Military Radio Items Needed, II
Date: Thu, 4 Jan 2001 10:15:07 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

I need some help!

I'm currently involved in installing radio sets in 3 WWII tank destroyers (1 M-18 Hellcat & 2 M-36). These all used the SCR-510 (BC-620) along with the RC-99 interphone equipment. The RC-99 major components are the BC-367(12v) or 667(24v) amplifiers & BC-606 & 739 interphone control boxes. I have 2 amplifiers & BC-606 control boxes but I need another BC-367 amp. & BC-739 control boxes, Qty-6. I'll take the BC-739s in just about any condition (complete or incomplete). The BC-739 looks very similar to the BC-606. Its dimensions are approx.- 4'' square x 2" deep. It has 2 sets of microphone & headphone jacks, 2 jumper cables with a PL-55 & PL-68 plug, 2 volume controls & a toggle switch.

I'm also putting together a SCR-399 radio set.

To complete it, I'm looking for the following items:

1. BC-610-E (or earlier) Transmitter.
2. HO-17 Shelter
3. CH-112-A Chest
4. Cables: CO-313, CO-314, CO-316, CO-335

If you have any of the above items that are extra to your needs or know where I can locate them, please contact:

Steve Finelli N3NNG
610-252-8211
610-258-7524
navrad@enter.net

Due to an unforeseen problem with my computer that caused several of my settings to be changed without me knowing, I've re-sent this request. My first post was sent in HTML that many of you were unable to read. I have corrected the problem.

Best Regards,

Steve

Message-Id: <3.0.6.32.20010104101819.02291c10@mail.nova.org>
Date: Thu, 04 Jan 2001 10:18:19 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Tom B <tbryan@nova.org>
Subject: Re: Obit - Al Gross
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All,

>Joanne-Eleanor?
>Was that the odd AN/SRT3 (?) cylindrical 118mc Gibson Girl sea-air
>replacement 2-way fm WW2's end?

No, see this site for a description of the "joan-eleanor" system.
http://www.geocities.com/saipan59/clan_radio/oss.html

Tom Bryan
tbryan@nova.org

Message-ID: <3A54C213.F32ED1CB@geo-thermal.com>
Date: Thu, 04 Jan 2001 10:33:55 -0800
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Gathering pieces of ART13 PS, need pwer connector plug
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Try Robert Downs. At one time, he had all of the connectors for the
ART-13.

From: n6nae@ix.netcom.com
Date: Thu, 04 Jan 2001 12:28:33 -0500
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need BC-221D spares cover
Message-ID: <Springmail.105.978629313.0.63948300@www.springmail.com>

Hi all:

I'm looking for a front panel cover that goes over the spare tube compartment on the lower front of the BC-221D freq meter. Anybody have a junker?

This unit is otherwise pristine, completely unmolested. Somebody just mislaid the spares compartment cover. Nuts. And the plastic sheet over the cal book is shrinking, but I guess that's the nature of the beast.

If anybody is collecting data, this BC-221D is S/N 3040, order 1621-NY-41, made by Bendix in Baltimore. Aluminium in black wrinkle, of course.

Richard
n6nae@ix.netcom.com

Message-ID: <3A547DC9.6F37@postoffice.uri.edu>
Date: Thu, 04 Jan 2001 13:42:33 +0000
From: Robert Vincent <rvi3489u@postoffice.uri.edu>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: HRO alignment
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anyone know how to get at the coil adjustments for alignment of an HRO-60 and the plug-in coils, do I need to get a special extender fpr the coil sets ? Rob K1DFT

Message-Id: <200101042114.PAA15661@exit1.i-55.com>
From: "Sandy Blaize" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Tube tester use
Date: Thu, 4 Jan 2001 15:28:09 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="-----
=_NextPart_000_01C07662.F11F3240"
Content-Transfer-Encoding: 7bit

This is a multi-part message in MIME format.

-----=_NextPart_000_01C07662.F11F3240
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

This has created controversy probably since the tube tester was invented! A lot of people I have run across over the years say that the tube tester was invented as a sales promoter and has no real useful purpose for the "real serviceman". Then you have the types that will blindly believe their "Supremo Super Micromho meter & Analyzer" without question.

Both these opposite types of techs are full of the well known bovine excrement! I have used and owned many types of tube checkers over the years from the fanciest Hickok to the lowliest Knight emission checker. This includes the military TV-4, TV-7, TV-10 and I-177 checkers. If used intelligently, there are a lot of shorted, leaky, low emission/Gm tubes you can definitely identify almost immediately. I have also gotten into the habit over the years of banging on a tube with the fingers while doing the shorts test. In doing a piece of gear that you are "overhauling" and returning to the shelf for future use, like when I was in avionics and we ran sets like the SCR-522, ARC-3, SCR-274N's, ARN-6, ARN-7, SCR-269G, later ARC-27 radios plus a plethora of ILS gear, it added to the reliability of our end product after we put the yellow tags on them.

Yes, there are times when there will be "low" tubes and they WILL test "good" on whatever checker you use, but common sense and knowledge of the limitations of the tester you are using will add to proper interpretation of the results the checker gives.

Testing transmitting tubes on ANY tube checker has and will always be questionable. You cannot run tests on say a 6146B on a checker that it will be subjected to in the final stage of a 50 Mhz transmitter. All the checker will tell you is that it isn't shorted, and that the Gm/emission is normal or not. I recently ran about fifteen 1625 tubes through my Hickok 539C, weeded out the obviously bad ones, then checked them, in pairs, in my TCS-12 transmitter to determine whether or not I should keep them or "can" them. All the ones the 539C said were "good" did work well in the TCS, by the way.

Large tubes like the 811A, 813, 829B, 3-500Z etc. should be checked in a piece of gear like or similar to what they are being "saved" for. No tester will ever tell you how and 829B will perform as an RF amplifier at 144 mhz!

If I didn't have mine, I'd have a lot of tubes that I would either have to dispose of or not know if they would begin to work properly without. What about the types I might test that I don't have "spares" for, OR that have gotten prohibitively expensive to "stock"?

my 2 cents worth.

73,

Sandy Blaize, W5TVW

>From the heart of: Pumpkin Center, LA., USA

-----=_NextPart_000_01C07662.F11F3240

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Content-Transfer-Encoding: 7bit

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* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
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-----=_NextPart_000_01C07662.F11F3240--

From: brian.k.harris@philips.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: transformer questions
Message-ID: <00569100095388490000002L192*@MHS>
Date: Thu, 4 Jan 2001 16:33:15 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; name="MEMO 01/04/01 16:31:00"
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

AttentionTransformer Gurus,

While digging through some old iron I came across an unmarked, medium size transformer with 5 terminals. Terminals 1 and 2 are adjacent and on one side of the bottom of the transformer. Terminals 3, 4, 5 are adjacent and on the other side of the bottom of the transformer. Terminal 4 is a center tap between Terminals 3 and 5.

Assuming Terminals 1 and 2 were the primary and that the transformer was designed for 110V, I connected a 40 Watt lamp in series with these terminals and an AC outlet. In this connection, the lamp glows dimly and has about 25V across it, leaving some 100 Volts (I have about 125V normal line voltage) across the primary. The voltage across Terminals 3 and 5 is about 1400.

My questions are:

1. Would you expect an unloaded primary to draw sufficient current to cause a 40W lamp to glow to approximately 1/6 to 1/4 full brilliance in this configuration? Note - I didn't to measure the AC current using a fixed resistor and a VOM (but I can) and I don't have an AC ammeter.

2. Given the existing glow, what do you think would happen if I put the

e transformer directly across the line? I have a Variac and lots of fuses with which to try this. =20

3. This transformer is about half the size of a large loaf of bread and weighs about 20 pounds. Assuming it's a 110V, 60 Hz unit, what would you expect a reasonable unloaded primary current to be?

4. What's a good approximation for Watts per pound for a 60 Hz transformer in intermittent amateur service?

Thanks for listening.

Brian WA5UEK

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Date: Thu, 04 Jan 2001 16:02:09 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: transformer questions
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0G6N00LIUXA4GB@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Brian;

Depending on the design of a transformer you can have as much as 10% primary current at full line voltage with no load on the secondaries. Transformers with more reserve permeability will show currents as little as about 1% current. These latter transformers use more and/or higher permeability iron. They are designed to run cooler at full load for better reliability and longer life. They can be larger and are more expensive than the consumer grade cheap stuff. Once you have determined which leads belong to the primary winding you will find that the marginal design transformers don't show much primary current until you approach full line voltage with your variac. As the transformer core starts saturating at voltage peaks the current starts a sudden increase as you go the last ten volts or so to maximum line voltage.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

End of BOATANCHORS Digest 3074
